

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: March 15, 2001, 10:52:58 ; Search time 16.02 seconds

(without alignments)  
10.079 Million cell updates/sec

Title: US-09-288-719-1  
Perfect score: 28  
Sequence: 1 GGCGS 5

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 88757 seqs, 32294092 residues  
Total number of hits satisfying chosen parameters: 88757

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : SwissProt\_39:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	28	100.0	69	1	MCBA_ECOLI
2	28	100.0	82	1	NIDM_MOUSE
3	28	100.0	104	1	HOL3_HOLDI
4	28	100.0	110	1	FUS1_HUMAN
5	28	100.0	114	1	ETS4_DROME
6	28	100.0	118	1	CRYP_CRYPA
7	28	100.0	144	1	GRP1_CHERU
8	28	100.0	144	1	GRP9_DAUCA
9	28	100.0	148	1	PUBJ_WHEAT
10	28	100.0	157	1	GRP_DAVCA
11	28	100.0	165	1	GRP1_ORYSA
12	28	100.0	176	1	GRP7_ARATH
13	28	100.0	179	1	CBFA_MAIZE
14	28	100.0	182	1	KLEC_BOVIN
15	28	100.0	183	1	OLEC_BRANA
16	28	100.0	190	1	XYN_TRIHA
17	28	100.0	192	1	VC49_BPMD2
18	28	100.0	202	1	TMST_HUMAN
19	28	100.0	205	1	CWEL_BACSU
20	28	100.0	206	1	TMST_MOUSE
21	28	100.0	214	1	GRP2_NICSY
22	28	100.0	222	1	ERF4_ARATH
23	28	100.0	226	1	SPC1_CANFA
24	28	100.0	231	1	RNH_STRCO
25	28	100.0	235	1	BARL_RAT
26	28	100.0	241	1	HSI2_HUMAN
27	28	100.0	252	1	GRP1_PHAUV
28	28	100.0	254	1	EXB1_SYNY3
29	28	100.0	259	1	NAHB_PSEPU
30	28	100.0	261	1	USI3_HCMVA
31	28	100.0	265	1	CDX1_HUMAN
32	28	100.0	265	1	Y176_HUMAN
33	28	100.0	265	1	YPG1_ZYMMO

34	28	100.0	268	1	CDX1_MOUSE	P18111 mus musculus
35	28	100.0	268	1	EP34_HCMVA	P16768 human cytom
36	28	100.0	269	1	CHIB_MAIZE	P29023 zea mays (m
37	28	100.0	274	1	HAT9_ARATH	P46603 arabidopsis
38	28	100.0	276	1	KC2D_ARATH	O81275 arabidopsis
39	28	100.0	278	1	T2D7_DROME	O27272 drosophila
40	28	100.0	280	1	CHIA_MAIZE	P29022 zea mays (m
41	28	100.0	283	1	KC2E_ARATH	O80307 arabidopsis
42	28	100.0	284	1	CDX4_HUMAN	O14627 homo sapien
43	28	100.0	288	1	CHIP_BETVU	P42820 beta vulgar
44	28	100.0	288	1	HME2_CHICK	O05917 gallus gall
45	28	100.0	297	1	SGS4_DROME	Q00725 drosophila

## ALIGNMENTS

RESULT 1  
ID MCBA\_ECOLI STANDARD; PRT; 69 AA.  
AC P05834;  
DT 01-NOV-1988 (Rel. 09, Created)  
DT 01-NOV-1988 (Rel. 09, Last sequence update)  
DT 30-MAY-2000 (Rel. 39, Last annotation update)  
DE BACTERIOCIN MICROCIN B17 PRECURSOR (MCB17).  
GN MCBA.  
OS Escherichia coli.  
OG Plasmid IncFII pmcCB17.  
OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Escherichia.  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE-88217867; PubMed-3329729;  
RA Davagnino J., Herrero M., Furlong D., Moreno F., Koller R.;  
RT "The DNA replication inhibitor microcin B17 is a  
RL forty-three-amino-acid protein containing sixty percent glycine.";  
RN [2]  
RP SEQUENCE FROM N.A.  
RX MEDLINE-89123111; PubMed-2644225;  
RA Genilloud O., Moreno F., Koller R.;  
RT "DNA sequence, products, and transcriptional pattern of the genes  
RN B17.";  
RL J. Bacteriol. 171:1126-1135(1989).  
RN [3]  
RP SEQUENCE OF 1-14 FROM N.A.  
RX MEDLINE-88216163; PubMed-2835580;  
RA Conell N., Han Z., Moreno F., Koller R.;  
RT "An E. coli promoter induced by the cessation of growth.";  
RN [4]  
RP PARTIAL SEQUENCE OF 27-69.  
RX MEDLINE-91122055; PubMed-1846808;  
RA Vizan J.L., Hernandez-Chico C., del Castillo I., Moreno F.;  
RT "The peptide antibiotic microcin B17 induces double-strand cleavage  
RN of DNA mediated by E. coli DNA gyrase.";  
RL EMBO J. 10:467-476(1991).  
RN [6]  
RP STRUCTURE BY NMR OF 1-26.  
RX MEDLINE-98213789; PubMed-9545435;  
RA Roy R.S., Kim S., Bateja J.D., Walsh C.T.;  
RT "Role of the microcin B17 propeptide in substrate recognition:  
RN solution structure and mutational analysis of McdA-26.";  
RL Chem. Biol. 5:217-228(1998).  
CC -!- FUNCTION: THIS GLYCINE-RICH PEPTIDE ANTIBIOTIC INHIBITS DNA

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CC REPLICATION IN MANY ENTERIC BACTERIA, THAT LEADS TO INDUCTION OF
CC THE SOS REPAIR SYSTEM, MASSIVE DNA DEGRADATION AND CELL DEATH.
CC B17 INHIBITS TYPE II TOPISOMERASE BY TRAPPING AN ENZYME - DNA
CC CLEAVABLE COMPLEX.
CC -1- PPM: THE PROCESSED N-TERMINUS DOES NOT RESEMBLE A TYPICAL
CC SECRETION SIGNAL SEQUENCE.
CC -1- PPM: THE CYS RESIDUES AS WELL AS SOME GLY AND CYS ARE POST-
CC TRANSLATIONALLY MODIFIED. MODIFICATIONS INCLUDE THE FORMATION OF
CC FOUR THIAZOLE AND FOUR OXAZOLE RINGS THAT RESULT, RESPECTIVELY,
CC FROM THE CONDENSATION OF FOUR SERINE SIDE CHAINS WITH THE CARBONYL
CC GROUP OF THE PRECEDING AMINO ACID.
CC -----
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CC -----
CC EMBL; M15469; AAA24141.1; -
CC EMBL; M24253; AAA72741.1; -
CC EMBL; X06417; CAA29725.1; -
CC PIR; A25219; MIEC77.
CC PIR; A32058; A32058.
CC PDB; 2MLP; 22-JUL-98.
CC DNA replication inhibitor; Antibiotic; Bacteriocin; Plasmid;
CC 3D-structure.
CC PROPEP 1 26 BACTERIOCIN MICROCIN B17.
CC CHAIN 27 69 POLY-GLY
CC DOMAIN 26 39
CC SEQUENCE 69 AA; 6013 MW; 0B1D159A832638A8 CRC64;
CC -----
QY 1 GGGGS 5
QY 11111
Db 36 GGGGS 40
-----
Query Match 100.0%; Score 28; DB 1; Length 69;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
-----
RESULT 2
NUMM MOUSE STANDARD; PRT; 82 AA.
AC P52503;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-NOV-1997 (Rel. 35, Last annotation update)
DE NADH-UBIQUINONE OXIDOREDUCTASE 13 KDA-A SUBUNIT (EC 1.6.5.3)
DE (EC 1.6.99.3) (COMPLEX I-13KD-A) (CI-13KD-A) (FRAGMENT).
GN NDUF56 OR IPI3.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-CD-1;
RX MEDLINE-95331630; PubMed-7607554;
RA Watson J.D., Beckett-Jones B., Roy R.N., Green N.C., Flynn T.G.;
RT "Genomic sequence, structural organization and evolutionary
RT conservation of the 13.2-kda subunit of rat NADH:ubiquinone
RT oxidoreductase."
RL Gene 158:275-280(1995).
CC -1- FUNCTION: TRANSFER OF ELECTRONS FROM NADH TO THE RESPIRATORY
CC CHAIN. THE IMMEDIATE ELECTRON ACCEPTOR FOR THE ENZYME IS BELIEVED
CC TO BE UBIQUINONE. THIS IS A COMPONENT OF THE IRON-SULFUR (IP)
CC FRAGMENT OF THE ENZYME.
CC -1- CATALYTIC ACTIVITY: NADH + UBIQUINONE = NAD(+) + UBIQUINOL.
CC -1- SUBUNIT: COMPLEX I IS COMPOSED OF ABOUT 30 DIFFERENT SUBUNITS.
CC -1- SUBCELLULAR LOCATION: MITOCHONDRIAL INNER MEMBRANE; MATRIX SIDE.
CC -----

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CC -----
CC EMBL; L38438; AAB64010.1; -
CC MGD; MGI:107932; NDUF56.
CC Oxidoreductase; NAD; Ubiquinone; Mitochondrion.
CC NON_TER 1
CC SEQUENCE 82 AA; 9330 MW; C923FFE245A9BD27 CRC64;
CC -----
QY 1 GGGGS 5
QY 11111
Db 50 GGGGS 54
-----
Query Match 100.0%; Score 28; DB 1; Length 82;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
-----
RESULT 3
HOL3_HOLDI STANDARD; PRT; 104 AA.
AC Q25055;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 01-NOV-1997 (Rel. 35, Last annotation update)
DE HOLOTRICIN 3 PRECURSOR.
DE Holotrichia diomphalia.
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Coleoptera; Polyphaga;
OC Scarabaeiformia; Scarabaeidae; Melolonthinae; Holotrichia.
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 21-40.
RC TISSUE-LARVAL HEMOLYMPH;
RX MEDLINE-96073722; PubMed-8535393;
RA Lee S.Y., Moon H.J., Kurata S., Natori S., Lee B.L.;
RT "Purification and cDNA cloning of an antifungal protein from the
RT hemolymph of Holotrichia diomphalia larvae."
RL Biol. Pharm. Bull. 18:1049-1052(1995).
CC -1- FUNCTION: HOLOTRICIN 3 HAS ANTIFUNGAL ACTIVITY AGAINST
CC C. ALBICANS.
CC -1- SIMILARITY: TO TENECIN 3.
CC -----
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CC -----
CC EMBL; D13744; BAA02889.1; -
CC HSSP; P30129; ADPV.
CC Insect immunity; Antibiotic; Hemolymph; Fungicide; Signal; Repeat.
CC SIGNAL 1 20
CC PEPTIDE 21 104
CC DOMAIN 27 98
CC REPEAT 27 30
CC REPEAT 31 34
CC REPEAT 35 38
CC REPEAT 39 42
CC REPEAT 43 46
CC REPEAT 47 50
CC REPEAT 51 54
CC REPEAT 55 58
CC REPEAT 59 62
CC -----
HOLOTRICIN 3.
18 x 4 AA APPROXIMATE TANDEM REPEATS OF
H-G-G-G.

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FT REPEAT 63 66 10.  
 FT REPEAT 67 70 11.  
 FT REPEAT 71 74 12.  
 FT REPEAT 75 78 13.  
 FT REPEAT 79 82 14.  
 FT REPEAT 83 86 15.  
 FT REPEAT 87 90 16.  
 FT REPEAT 91 94 17.  
 FT REPEAT 96 98 18.  
 SQ SEQUENCE 104 AA; 9026 MW; 2799D681BFDC725 CRC64;

Query Match  
 Best Local Similarity 100.0%; Score 28; DB 1; Length 104;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGS 5  
 |||||  
 Db 69 GGGGS 73

RESULT 4  
 FUS1\_HUMAN STANDARD; PRT; 110 AA.  
 ID FUS1\_HUMAN  
 AC O75896;  
 DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE FUS1 PROTEIN.  
 GN FUS1.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Latif F., Duh F.-M., Kuzmin I., Li H., Bader S., Sekido Y.,  
 RA Minna J.D., Lerman M.I.;  
 RT "FUS1, a highly conserved gene, is located in the smallest lung cancer  
 RT region on 3p21.3";  
 RL Submitted (MAR-1998) to the EMBL/GenBank/DBJ databases.  
 CC -1- DISEASE: COULD BE THE PRODUCT OF A GENE INVOLVED IN LUNG CANCER.  
 CC -1- SIMILARITY: BELONGS TO THE FUS1 FAMILY.  
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 CC -----  
 DR EMBL; AF055479; AAC35497.1;  
 SQ SEQUENCE 110 AA; 12074 MW; 9503BD10637C1504 CRC64;

Query Match  
 Best Local Similarity 100.0%; Score 28; DB 1; Length 110;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGS 5  
 |||||  
 Db 19 GGGGS 23

RESULT 5  
 ETS4\_DROME STANDARD; PRT; 114 AA.  
 ID ETS4\_DROME  
 AC P29775;  
 DT 01-APR-1993 (Rel. 25, Created)  
 DT 01-APR-1993 (Rel. 25, Last sequence update)  
 DT 01-FEB-1995 (Rel. 31, Last annotation update)  
 DE DNA-BINDING PROTEIN D-ETS-4 (FRAGMENT).  
 GN ETS98B OR ETS-4.

OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;  
 CC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 CC Ephydroidea; Drosophilidae; Drosophila.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE-92249640; PubMed-1577186;  
 RA Chen T., Buntling M., Karim F.D., Thummel G.S.;  
 RT "Isolation and characterization of five Drosophila genes that encode  
 RT an ets-related DNA binding domain";  
 RL Dev. Biol. 151:176-191(1992).  
 CC -1- SUBCELLULAR LOCATION: NUCLEAR.  
 CC -1- SIMILARITY: BELONGS TO THE ETS FAMILY.  
 CC -----  
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 CC -----  
 DR EMBL; M88474; AAA28451.1;  
 DR PIR; S28821; S28821.  
 DR HSSP; Q01543; IFTI.  
 DR FLYBASE; FBgn0005659; ETS98B.  
 DR INTERPRO; IPR000418;  
 DR PFAM; PF00178; Ets; 1.  
 DR PROSITE; PS00345; ETS\_DOMAIN\_1; 1.  
 DR PROSITE; PS00346; ETS\_DOMAIN\_2; 1.  
 DR PROSITE; PS50061; ETS\_DOMAIN\_3; 1.  
 KW DNA-binding; Nuclear protein.  
 FT NON\_TER 1  
 FT DNA\_BIND 26 108 ETS-DOMAIN.  
 FT NON\_TER 114 114  
 SQ SEQUENCE 114 AA; 13051 MW; 6D7B46CE006A9743 CRC64;

Query Match  
 Best Local Similarity 100.0%; Score 28; DB 1; Length 114;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGS 5  
 |||||  
 Db 20 GGGGS 24

RESULT 6  
 CRYP\_CRYPA STANDARD; PRT; 118 AA.  
 ID CRYP\_CRYPA  
 AC P52753;  
 DT 01-OCT-1996 (Rel. 34, Created)  
 DT 01-OCT-1996 (Rel. 34, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE CRYPARIN PRECURSOR.  
 GN CRP.  
 OS Cryphonectria parasitica (chestnut blight fungus) (Endothia  
 OS parasitica).  
 OC Eukaryota; Fungi; Ascomycota; Diaporthales; Valsaceae; Cryphonectria.  
 RN [1]  
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 23-73.  
 RC STRAIN-155/2;  
 RX MEDLINE-94156182; PubMed-8112589;  
 RA Zhang L., Villalón D., Sun Y., Kazmierczak P., van Alfen N.K.;  
 RT "Virus-associated down-regulation of the gene encoding cryptarin, an  
 RT abundant cell-surface protein from the chestnut blight fungus,  
 RT Cryphonectria parasitica";  
 RL Gene 139:59-64(1994).  
 CC -1- FUNCTION: CONTRIBUTES TO SURFACE HYDROPHOBICITY, WHICH IS  
 CC IMPORTANT FOR PROCESSES SUCH AS ASSOCIATION OF HYPAE IN  
 CC REPRODUCTIVE STRUCTURES, DISPERSAL OF AERIAL SPORES AND ADHESION  
 CC OF PARHOSIS TO HOST STRUCTURES. PRODUCED ABUNDANTLY, EXCEPT IN  
 CC THE DS-RNA VIRUS-INFECTED STRAINS, WHERE THE EXPRESSION IS MUCH

CC REDUCED.  
CC -1- SUBCELLULAR LOCATION: CELL WALL OF AERIAL HYPHAE AND SPOULATION  
CC STRUCTURES. ABUNDANTLY SECRETED.  
CC -1- DEVELOPMENTAL STAGE: HIGHLY EXPRESSED ON DAY 2 AND 3 AFTER  
CC INOCULATION. A TIME WHEN THE FUNGUS IS IN A RAPID PHASE OF GROWTH.  
CC AFTER A STATIONARY PHASE ON DAY 4, THE EXPRESSION DECREASES.  
CC -1- SIMILARITY: BELONGS TO THE CERATO-ULMIN HYDROPHOBIN FAMILY.  
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CC  
CC EMBL: L09559; AAA19638.1; -  
CC Cell wall; Signal; Repeat.  
CC  
CC SIGNAL 1 22  
CC CHAIN 23 118 CRYPARIN.  
CC DOMAIN 23 32 POLY-GLY.  
CC REPEAT 29 42 7 X 2 AA TANDEM REPEAT OF S-G.  
CC REPEAT 29 30 1.  
CC REPEAT 31 32 2.  
CC REPEAT 33 34 3.  
CC REPEAT 35 36 4.  
CC REPEAT 37 38 5.  
CC REPEAT 39 40 6.  
CC REPEAT 41 42 7.  
CC SEQUENCE 118 AA; 11387 MW; F7C7CCEA57D06A5 CRC64;  
SO  
Query Match 100.0%; Score 28; DB 1; Length 118;  
Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GGGGS 5  
IIIIII  
Db 25 GGGGS 29  
RESULT 7  
GRPL\_CHERU STANDARD; PRT; 144 AA.  
ID GRPL\_CHERU  
AC P11898;  
DT 01-OCT-1989 (Rel. 12, Created)  
DT 01-OCT-1989 (Rel. 12, Last sequence update)  
DT 01-OCT-1984 (Rel. 30, Last annotation update)  
DE GLYCINE-RICH PROTEIN HCl.  
OS Chenopodium tubrium (Red goosefoot) (Pigweed).  
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
OC Magnoliophyta; eudicotyledons; core eudicots; Caryophyllidae;  
OC Caryophyllales; Chenopodiaceae; Chenopodium.  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE-89240041; PubMed-2717413;  
RA Kaldenhoff R., Richter G.;  
RT "Sequence of cDNA for a novel light-induced glycine-rich protein.";  
RL Nucleic Acids Res. 17:2853-2853(1989).  
CC -1- INDUCTION: BY LIGHT.  
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CC  
CC EMBL: X14067; CAA32230.1; -  
CC PIR: S04069; S04069.  
CC Repeat; Transmembrane.  
KW TRANSMEM 5 POTENTIAL.

FT DOMAIN 37 113 11 X 6 AA TANDEM REPEATS OF G-Y-[NH]-N-G  
FT REPEAT 37 42 -G.  
FT REPEAT 43 48 1.  
FT REPEAT 50 55 2.  
FT REPEAT 56 61 3.  
FT REPEAT 63 68 4.  
FT REPEAT 69 74 5.  
FT REPEAT 76 81 6.  
FT REPEAT 82 87 7.  
FT REPEAT 89 94 8.  
FT REPEAT 102 107 9.  
FT REPEAT 108 113 10.  
FT REPEAT 114 119 11.  
FT SEQUENCE 144 AA; 14137 MW; 5B4D62DA4A61621B0 CRC64;  
SO  
Query Match 100.0%; Score 28; DB 1; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GGGGS 5  
IIIIII  
Db 111 GGGGS 115  
RESULT 8  
GRP9\_DAUCA STANDARD; PRT; 144 AA.  
ID GRP9\_DAUCA  
AC P37703;  
DT 01-OCT-1994 (Rel. 30, Created)  
DT 01-OCT-1994 (Rel. 30, Last sequence update)  
DT 01-OCT-1994 (Rel. 30, Last annotation update)  
DE GLYCINE-RICH PROTEIN DC9.1.  
OS Daucus carota (Carrot).  
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
OC Magnoliophyta; eudicotyledons; core eudicots; Asteridae;  
OC eunsterids II; Apiales; Apiaceae; Daucus.  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Aleith F., Richter G.;  
RT "Gene expression during induction of somatic embryogenesis in carrot  
cell suspensions.";  
RL Planta 183:17-24(1990).  
DR PIR: S35716; S35716.  
KW Repeat; Transmembrane.  
FT TRANSMEM 5  
FT DOMAIN 37 113  
FT REPEAT 37 42 -G.  
FT REPEAT 43 48 1.  
FT REPEAT 50 55 2.  
FT REPEAT 56 61 3.  
FT REPEAT 63 68 4.  
FT REPEAT 69 74 5.  
FT REPEAT 76 81 6.  
FT REPEAT 82 87 7.  
FT REPEAT 89 94 8.  
FT REPEAT 102 107 9.  
FT REPEAT 108 113 10.  
FT REPEAT 114 119 11.  
FT SEQUENCE 144 AA; 14111 MW; 5B4D62CFBCA791B0 CRC64;  
SO  
Query Match 100.0%; Score 28; DB 1; Length 144;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 1 GGGGS 5  
IIIIII  
Db 111 GGGGS 115  
RESULT 9  
PUB\_WHEAT POTENTIAL.

ID PUB.WHEAT STANDARD: PRT: 148 AA.  
 AC Q10464;  
 DT 01-OCT-1996 (Rel. 34, Created)  
 DT 01-OCT-1996 (Rel. 34, Last sequence update)  
 DT 15-DEC-1998 (Rel. 37, Last annotation update)  
 DE PROINDOLINE-B PRECURSOR.  
 OS Trifolium aestivum (Wheat).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Triticum.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN-CV. CAPITOLE; TISSUE-SEED;  
 RX MEDLINE-94272013; PubMed-7516201;  
 RA Gautier M.-F., Aleman M.-F., Guirao A., Marion D., Joudrier P.;  
 RT "Triticum aestivum proindolines, two basic cysteine-rich seed  
 proteins: cDNA sequence analysis and developmental gene expression.";  
 RL Plant Mol. Biol. 25:43-57(1994).  
 RN [2]  
 RP SEQUENCE OF 30-148.  
 RA Blochet J.E., Kaboulou A., Compoin J.P., Marion D.;  
 RL (In) Bushuk W., Tkachuk R. (eds.);  
 RL Gluten proteins, pp.314-325, American Association of Cereal Chemists,  
 St. Paul MI (1991).  
 CC -1- FUNCTION: ACTS AS A MEMBRANOTOXIN, PROBABLY THROUGH ITS  
 CC ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES, CONTRIBUTING TO THE  
 CC DEFENSE MECHANISM OF THE PLANT AGAINST PREDATORS.  
 CC -1- FIVE DISULFIDE BONDS ARE PRESENT.  
 CC -----  
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 CC -----  
 DR EMBL: X69912; CAA49537.1; -  
 DR HSSP: P07597; ILTP.  
 DR INTERPRO: IPR001768; -  
 DR PFAM: PF00234; tryp\_alpha\_amy1; 1.  
 KM Membrane; Toxin; Antibiotic; Signal.  
 FT SIGNAL 1 19 POTENTIAL.  
 FT PROPEP 20 29  
 FT CHAIN 30 148 PROINDOLINE-B.  
 FT DOMAIN 68 73 TRP-RICH.  
 SQ SEQUENCE 148 AA; 16792 MW; 327904B4EBEC2C16 CRC64;  
 Query Match 100.0%; Score 28; DB 1; Length 148;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 1 GGGGS 5  
 DB 33 GGGGS 37  
 RESULT 10  
 GRP DAUCA STANDARD: PRT: 157 AA.  
 AC 003878;  
 DT 01-JUN-1994 (Rel. 29, Created)  
 DT 01-JUN-1994 (Rel. 29, Last sequence update)  
 DT 01-FEB-1996 (Rel. 33, Last annotation update)  
 DE GLYCINE-RICH RNA-BINDING PROTEIN.  
 OS Daucus carota (Carrot).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; eudicotyledons; core eudicots; Asteridae;  
 OC euasterids II; Apiales; Apiaceae; Daucus.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN-CV. QUEEN ANNE'S LACE;  
 RA Sturm A.;

RT "A wound-inducible glycine-rich protein from Daucus carota with  
 RT homology to single-stranded nucleic acid binding proteins";  
 RL Plant Physiol. 99:1689-1692(1992).  
 CC -1- FUNCTION: MAY PLAY A ROLE IN THE BIOSYNTHESIS AND PROCESSING OF  
 CC HETEROGENEOUS NUCLEAR RNA AND IN THE MATURATION OF SPECIFIC MRNAS  
 CC IN RESPONSE TO WOUNDING.  
 CC -1- INDUCTION: IN RESPONSE TO STRESS BY WOUNDING.  
 CC -1- SIMILARITY: CONTAINS 1 RNA RECOGNITION MOTIF (RNM).  
 CC -----  
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 CC -----  
 DR EMBL: X58146; CAA41152.1; -  
 DR PIR: S14857; S14857.  
 DR HSSP: P09651; 1UP1.  
 DR INTERPRO: IPR000504; -  
 DR PFAM: PF00076; rrm; 1.  
 DR PROSITE: PS50102; RNM\_1.  
 DR PROSITE: PS00030; RNM\_RNP\_1; 1.  
 KW RNA-binding.  
 FT DOMAIN 8 13 RNA-BINDING (RNP2) (BY SIMILARITY).  
 FT DOMAIN 47 54 RNA-BINDING (RNP1) (BY SIMILARITY).  
 FT DOMAIN 86 154 GLY-RICH  
 SQ SEQUENCE 157 AA; 15718 MW; 73FBD644F51CB633 CRC64;  
 Query Match 100.0%; Score 28; DB 1; Length 157;  
 Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 1 GGGGS 5  
 DB 151 GGGGS 155  
 RESULT 11  
 GRP1-ORISA STANDARD: PRT: 165 AA.  
 AC P25074;  
 DT 01-MAY-1992 (Rel. 22, Created)  
 DT 01-MAY-1992 (Rel. 22, Last sequence update)  
 DT 01-APR-1993 (Rel. 25, Last annotation update)  
 DE GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 1 PRECURSOR.  
 GN GRP-1.  
 OS Oryza sativa (Rice).  
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Oryza.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN-CV. INDICA-IR36;  
 RX MEDLINE-91370862; PubMed-1716496;  
 RA Lei M., Wu R.;  
 RT "A novel glycine-rich cell wall protein gene in rice";  
 RL Plant Mol. Biol. 16:187-198(1991).  
 CC -1- FUNCTION: RESPONSIBLE FOR PLASTICITY OF THE CELL WALL (POTENTIAL).  
 CC -1- SUBCELLULAR LOCATION: CELL WALL (POTENTIAL).  
 CC -----  
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 CC -----  
 DR EMBL: X53596; CAA37665.1; -  
 DR PIR: S13385; KNRZG1.  
 DR HSSP: P30129; 4DPV.

KW Cell wall; Structural protein; Repeat; Signal.  
FT SIGNAL 1 23 POTENTIAL.  
FT CHAIN 24 165 GLYCINE-RICH CELL WALL STRUCTURAL  
PROTEIN 1.  
FT DOMAIN 31 159 GLY-RICH.  
FT REPEAT 56 62 R2 (TYR-RICH).  
FT REPEAT 93 99 R2 (TYR-RICH).  
FT REPEAT 132 138 R2 (TYR-RICH).  
SQ SEQUENCE 165 AA; 13536 MW; E36CE31C3650AC9A CRC64;

Query Match 100.0%; Score 28; DB 1; Length 165;  
Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGS 5  
|||||  
Db 121 GGGGS 125

RESULT 12  
GRP7\_ARATH STANDARD; PRT; 176 AA.  
ID GRP7\_ARATH 003250;  
DT 01-JUN-1994 (Rel. 29, Created)  
DT 01-JUN-1994 (Rel. 29, Last sequence update)  
DT 01-FEB-1995 (Rel. 31, Last annotation update)  
DE GLYCINE-RICH RNA-BINDING PROTEIN 7.  
GN GRP7.  
OS Arabidopsis thaliana (Mouse-ear cress).  
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
OC Magnoliophyta; eudicotyledons; Core eudicots; Rosidae; eurosids II;  
OC Brassicales; Brassicaceae; Arabidopsis.  
RN [1].  
RP SEQUENCE FROM N.A.  
RC STRAIN=CV. COLUMBIA; TISSUE=LEAF;  
RX MEDLINE-93192529; PubMed-8448367;  
RA van Nocker S.; Verstra R.D.;  
RT "Two cDNAs from Arabidopsis thaliana encode putative RNA binding  
proteins containing glycine-rich domains.";  
RL Plant Mol. Biol. 21:695-699(1993).  
CC -1- FUNCTION: POSSIBLY HAS A ROLE IN RNA TRANSCRIPTION OR  
PROCESSING DURING STRESS.  
CC -1- SIMILARITY: CONTAINS 1 RNA RECOGNITION MOTIF (RRM).  
CC -----  
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CC -----  
DR EMBL: Z14987; CAA7871.1; -  
DR EMBL: L00648; AAA32853.1; -  
DR PIR: S30147; S30147.  
DR HSSP: P09651; IUP1.  
DR INTERPRO: IPR000504; -  
DR PFAM: PF00076; RRM\_1.  
DR PROSITE: PS50102; RRM\_1.  
DR PROSITE: PS00030; RRM\_RNP\_1; 1.  
KW RNA-binding.  
FT DOMAIN 10 15 RNA-BINDING (RNP2) (BY SIMILARITY).  
FT DOMAIN 49 56 RNA-BINDING (RNP1) (BY SIMILARITY).  
FT DOMAIN 88 176 GLY-RICH.  
SQ SEQUENCE 176 AA; 16890 MW; 3E1025477F9CF4C4 CRC64;

Query Match 100.0%; Score 28; DB 1; Length 176;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGS 5

Db 113 GGGGS 117  
|||||  
RESULT 13  
CBFA\_MAIZE STANDARD; PRT; 179 AA.  
ID CBFA\_MAIZE P25209;  
DT 01-MAY-1992 (Rel. 22, Created)  
DT 01-MAY-1992 (Rel. 22, Last sequence update)  
DT 01-OCT-1996 (Rel. 34, Last annotation update)  
DE CCAAT-BINDING TRANSCRIPTION FACTOR SUBUNIT A (CBF-A) (NF-Y PROTEIN  
CHAIN B) (NF-YB) (CAAT-BOX DNA BINDING PROTEIN SUBUNIT B).  
GN NFY2.  
OS Zea mays (Maize).  
OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;  
OC Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.  
RN [1].  
RP SEQUENCE FROM N.A.  
RC MEDLINE-92195809; PubMed-1549471;  
RA Li X.-Y.; Mantovani R.; Hooft van Hujsdunjen R.; Andre I.;  
RA Benoist C.; Mathis D.;  
RT "Evolutionary variation of the CCAAT-binding transcription factor  
NF-Y.";  
RL Nucleic Acids Res. 20:1087-1091(1992).  
CC -1- FUNCTION: STIMULATES THE TRANSCRIPTION OF VARIOUS GENES BY  
RECOGNIZING AND BINDING TO A CCAAT MOTIF IN PROMOTERS, FOR  
EXAMPLE IN TYPE I COLLAGEN, ALBUMIN AND BETA-ACTIN GENES.  
CC -1- SUBUNIT: HETEROMERIC TRANSCRIPTION FACTOR COMPOSED OF TWO  
COMPONENTS, A AND B, THAT ARE BOTH NEEDED FOR DNA BINDING.  
CC -1- SUBCELLULAR LOCATION: NUCLEAR.  
CC -1- DOMAIN: CAN BE DIVIDED INTO THREE DOMAINS: THE WEAKLY CONSERVED A  
DOMAIN, THE HIGHLY CONSERVED B DOMAIN THOUGHT TO BE INVOLVED IN  
SUBUNIT INTERACTION AND DNA BINDING, AND THE GLU-RICH C DOMAIN.  
CC -1- SIMILARITY: BELONGS TO THE CBF-A SUBUNIT FAMILY.  
CC -----  
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CC -----  
DR EMBL: X59714; CAA42234.1; -  
DR HSSP: P19267; IBEF.  
DR MAIZEDB: 69282; -  
DR INTERPRO: IPR000947; -  
DR PFAM: PF00808; CBF\_NFYB\_HMF; 1.  
DR PRINTS: PR00615; CCAATSUBUNITA.  
DR PROSITE: PS00685; CBFA\_NFYB; 1.  
KW Transcription regulation; DNA-binding; Activator; Nuclear protein.  
FT DOMAIN 1 29 A DOMAIN.  
FT DOMAIN 30 119 B DOMAIN.  
FT DOMAIN 120 179 C DOMAIN.  
FT DNA\_BIND 36 42 BY SIMILARITY.  
SQ SEQUENCE 179 AA; 18995 MW; 30621316CE469454 CRC64;

Query Match 100.0%; Score 28; DB 1; Length 179;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGS 5  
|||||  
Db 10 GGGGS 14

RESULT 14  
K2C3\_BOVIN STANDARD; PRT; 182 AA.  
ID K2C3\_BOVIN P04261;  
AC P04261;  
DT 20-MAR-1987 (Rel. 04, Created)

DT 20-MAR-1987 (Rel. 04, last sequence update)  
 DT 01-JUN-1994 (Rel. 29, last annotation update)  
 DE KERATIN, TYPE II CYTOSKELETAL 60 KDA, COMPONENT III (FRAGMENT).  
 OS Bos taurus (Bovine).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
 CC Bovinae; Bovinae; Bos.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=85128114; PubMed=6084625.  
 RA Jorcano J.L., Franz J.K., Franke W.W.;  
 RT "Amino acid sequence diversity between bovine epidermal cyokeratin  
 RT polypeptides of the basic (type II) subfamily as determined from cDNA  
 RT clones".  
 RL Differentiation 28:155-163(1984).  
 CC -1- SUBUNIT: HETEROTRIMER OF TWO TYPE I AND TWO TYPE II KERATINS.  
 CC -1- MISCELLANEOUS: THERE ARE TWO TYPES OF CYTOSKELETAL AND  
 CC MICROFIBRILLAR KERATIN, I (ACIDIC) AND II (NEUTRAL TO BASIC)  
 CC (40-55 AND 56-70 KILODALTONS, RESPECTIVELY).  
 CC -1- SIMILARITY: BELONGS TO THE INTERMEDIATE FILAMENT FAMILY.  
 CC -----  
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 CC -----  
 CC EMBL; K03535; AAA30602.1; -  
 DR PIR; A02947; A02947.  
 DR INTERPRO: IPR001664; -  
 DR PFAM: PF00038; filament; 1.  
 DR PROSITE: PS00226; IF; 1.  
 KW Intermediate filament; Coiled coil; Heptad repeat pattern; Keratin.  
 FT NON\_TER 1 1  
 FT DOMAIN <1 63 ROD.  
 FT DOMAIN 63 182 TAIL.  
 FT DOMAIN <1 63 COIL 2.  
 FT SITE 1 1 STUTTER.  
 SQ SEQUENCE 182 AA; 17560 MW; C263102147632F66 CRC64;  
  
 QY 1 GGGGS 5  
 Db 119 GGGGS 123  
  
 Query Match 100.0%; Score 28; DB 1; Length 182;  
 Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RL Plant J. 3:629-636(1993).  
 CC -1- FUNCTION: MAY HAVE A STRUCTURAL ROLE TO STABILIZE THE LIPID BODY  
 CC DURING DESTICATION OF THE SEED BY PREVENTING COALESCENCE OF THE  
 CC OIL. PROBABLY INTERACTS WITH BOTH LIPID AND PHOSPHOLIPID MOETIES  
 CC OF LIPID BODIES. MAY ALSO PROVIDE RECOGNITION SIGNALS FOR SPECIFIC  
 CC LIPASE ANCHORAGE IN LIPOLYSIS DURING SEEDLING GROWTH.  
 CC -1- SUBCELLULAR LOCATION: SURFACE OF OIL BODIES. OLEOSINS EXIST AT A  
 CC MONOLAYER LIPID/WATER INTERFACE.  
 CC -1- TISSUE SPECIFICITY: SPECIFIC TO THE MALE GAMETOPHYTE.  
 CC -1- SIMILARITY: BELONGS TO THE OLEOSIN FAMILY.  
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 CC -----  
 CC EMBL; X67142; CAA47623.1; -  
 DR PIR; S24960; S24960.  
 DR HSSP; P04002; IMFA.  
 DR INTERPRO: IPR000136; -  
 DR PROSITE: PS00811; OLEOSINS; 1.  
 KW Seed; Oil body; Multigene family.  
 FT NON\_TER 1 1  
 FT DOMAIN <1 23 POLAR.  
 FT DOMAIN 24 95 HYDROPHOBIC.  
 SQ SEQUENCE 183 AA; 18149 MW; 198A5D3B6D3045A CRC64;  
  
 QY 1 GGGGS 5  
 Db 123 GGGGS 127  
  
 Query Match 100.0%; Score 28; DB 1; Length 183;  
 Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Search completed: March 15, 2001, 11:11:10  
 Job time: 1092 sec

